EXCAVATOR SYSTEM

ABSTRACT

An excavation system includes a shroud having a first opening and a second opening, a nozzle for directing an air stream in a first direction through the first opening of the shroud, wherein the nozzle is surrounded by the shroud, a first pump configured to apply a suction within the shroud in a second direction through the second opening of the shroud, and a collection area in fluid communication with the second opening of the shroud for receiving contaminated material. The collection area includes a collector for separating the contaminated material via an impact plate and a filter. The contaminated material is then deposited into a bag supported by a box. A method for excavating the contaminated material from the ground is also disclosed.